

**Remarks**

**I. Introduction**

Claims 1-133 remain pending in this application. By this amendment, claims 1, 17, 36, 44, 55, 62, 78, 97, 105 and 116 are amended. Reconsideration in view of the foregoing amendments and following remarks is respectfully requested.

Furthermore, it is respectfully submitted that entry of the amendment imposes no additional burden on the Examiner because the claims were only amended to add that which was expected, that is, to overcome the outstanding rejection under 35 U.S.C. § 112, first paragraph. Accordingly entry of the Amendment is respectfully requested.

**II. Indication of Allowed Claims**

Applicants appreciate the Examiner's indication that claims 30-35, 91-96, and 123-133 are allowed. For the reasons set forth herein, Applicants submit that all pending claims are in condition for allowance.

**III. Rejection under 35 U.S.C. § 112, 1<sup>st</sup> Paragraph**

Claims 1-29, 36-90 and 97-122 stand rejected under 35 U.S.C. § 112, 1<sup>st</sup> Paragraph as failing to comply with the written description requirement. Specifically, the Examiner asserts that the amended claim language "reducing an average DC component of the encoded/decoded information," as introduced in the November 9, 2004 Amendment into independent claims 1, 17, 36, 44, 55, 62, 78, 97, 105 and 116, is new matter that is not supported by the original specification. The Examiner supports this assertion with evidence that Applicants are already of record in stating that the Walsh code is modified to reduce an average DC component of the basic Walsh code, instead of the decoded or encoded information. Applicants submit that while this is true, that is, the Walsh code is modified to reduce a DC component that would otherwise

exist in an unmodified Walsh code, the purpose as well as the effect of this modification is to reduce an average DC component of the information that is encoded/decoded by this modified Walsh code.

Therefore, in the interest of expediting the prosecution of this application, to render the claims definite, and to address the Examiner's original grounds of rejection, that is, what reduction of the average DC signal component is relative to, Applicants have amended each of the aforementioned claims to recite that the code is "**modified to have a reduced DC component for reducing an average DC signal component of the information encoded/decoded by the orthogonal code (or Walsh code, depending upon specific claim language) relative to that information being encoded/decoded by the code in its unmodified state.**"

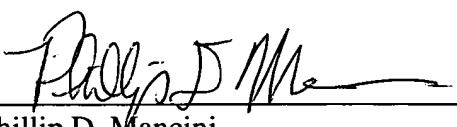
Thus, by these amendments, Applicants respectfully submit that the claims now make it clear that: (1) the Walsh code is modified to reduce an average DC component that is native to a basic (unmodified) Walsh code; and (2) the average DC signal component of the information encoded/decoded by this modified Walsh code is thereby reduced relative to its state if this information were encoded/decoded by an unmodified Walsh code, that is, a basic Walsh code that has not been modified to have reduced a DC component.

Therefore, in view of the foregoing amendments and remarks, Applicants respectfully submit that all requirements of 35 U.S.C. § 112, 2<sup>nd</sup> paragraph have been satisfied and that the amendments thus made by this amendment are in fully compliance with § 112, 1<sup>st</sup> paragraph. That is, these amendments are fully supported by the original specification. Accordingly, Applicants respectfully request that rejection of claims 1-29, 36-90 and 97-122 be withdrawn.

**IV. Conclusion**

Applicants submit that this application is in condition for allowance. Favorable reconsideration and prompt allowance of all pending claims 1-133 are earnestly solicited. Should the Examiner believe that anything further would be desirable in order to place the claims in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below.

Respectfully submitted,

Dated: September 29, 2005  
By:   
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